Applicant : Joan M. Fallon   Attorney's Docket No.: 25324-0021001
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Amendments to the Claims:

This listing of claims replaces all prior listings of claims:

1. (Currently Amended) A method for determining if an individual has Autism, comprising the steps of:

       obtaining a stool sample from the individual;

       analyzing the stool sample to determine the presence or absence of one or more antigens associated with ~~one~~ two or more different pathogens selected from the group consisting of *Helicobacter pylori*, Cryptosporidium, *Entamoeba histolytica*, Giardia, Rotavirus, Camphylobacter, and *Clostridium difficile*; and

       ~~identifying the presence~~ determining that the individual has Autism based on the presence of the antigens associated with of the ~~one~~ two or more different pathogens in the stool sample ~~as a biomarker that indicates that the individual has Autism~~.

2. (Previously Presented) The method of claim 1, wherein the step of analyzing comprises performing a stool immunoassay.

3-6. (Canceled).

7. (Currently Amended) The method of claim 1, wherein at least one of the ~~one~~ two or more different pathogens is *Helicobacter pylori*.

8-29. (Canceled).

30. (Withdrawn - Currently Amended) The method of claim 1, wherein at least one of the ~~one~~ two or more different pathogens is Cryptosporidium.

31. (Withdrawn - Currently Amended) The method of claim 1, wherein at least one of the ~~one~~ two or more different pathogens is *Entamoeba histolytica*.

32. (Withdrawn - Currently Amended) The method of claim 1, wherein at least one of the ~~one~~ two or more different pathogens is Giardia.

33. (Withdrawn - Currently Amended) The method of claim 1, wherein at least one of the ~~one~~ two or more different pathogens is Rotavirus.

34. (Withdrawn - Currently Amended) The method of claim 1, wherein at least one of the ~~one~~ two or more different pathogens is Camphylobacter.

35. (Withdrawn - Currently Amended) The method of claim 1, wherein at least one of the ~~one~~ two or more different pathogens is *Clostridium difficile*.

36. (Currently Amended) A method for diagnosing Autism in an individual, the method comprising:

obtaining a stool sample from the individual;

analyzing the stool sample to determine the presence or absence of one or more antigens associated with ~~one~~ two or more different pathogens selected from the group consisting of *Helicobacter pylori*, Cryptosporidium, *Entamoeba histolytica*, Giardia, Rotavirus, Camphylobacter, and *Clostridium difficile*; and

~~identifying the presence of~~ diagnosing Autism in the individual based on the presence of the antigens associated with the ~~one~~ two or more different pathogens in the stool sample ~~as a biomarker that indicates that the individual has Autism~~.

37. (Previously Presented) The method of claim 36, wherein the step of analyzing comprises performing a stool immunoassay.

38. (Currently Amended) The method of claim 36, wherein at least one of the ~~one~~ two or more different pathogens is *Helicobacter pylori*.

39. (Withdrawn - Currently Amended) The method of claim 36, wherein at least one of the ~~one~~ two or more different pathogens is Cryptosporidium.

40. (Withdrawn - Currently Amended) The method of claim 36, wherein at least one of the ~~one~~ two or more different pathogens is *Entamoeba histolytica*.

41. (Withdrawn - Currently Amended) The method of claim 36, wherein at least one of the ~~one~~ two or more different pathogens is Giardia.

42. (Withdrawn - Currently Amended) The method of claim 36, wherein at least one of the ~~one~~ two or more different pathogens is Rotavirus.

43. (Withdrawn - Currently Amended) The method of claim 36, wherein at least one of the ~~one~~ two or more different pathogens is Camphylobacter.

44. (Withdrawn - Currently Amended) The method of claim 36, wherein at least one of the ~~one~~ two or more different pathogens is *Clostridium difficile*.

45. (Currently amended) The method of claim 2 ~~1~~, wherein the stool immunoassay comprises detecting one or more polypeptides antigens associated with ~~one~~ two or more different pathogens selected from the group consisting of *Helicobacter pylori*, Cryptosporidium, *Entamoeba histolytica*, Giardia, Rotavirus, Camphylobacter, and *Clostridium difficile*.

46. (Previously Presented) The method of claim 37, wherein the stool immunoassay comprises detecting one or more polypeptides antigens associated with ~~one~~ two or more different pathogens selected from the group consisting of *Helicobacter pylori*, Cryptosporidium, *Entamoeba histolytica*, Giardia, Rotavirus, Camphylobacter, and *Clostridium difficile*.

47. (Currently Amended) A method of determining an individual's risk of developing Autism, the method comprising:

obtaining a stool sample from the individual;

analyzing the stool sample to determine the presence or absence of one or more antigens associated with ~~one~~ <u>two</u> or more different pathogens selected from the group consisting of *Helicobacter pylori*, Cryptosporidium, *Entamoeba histolytica*, Giardia, Rotavirus, Camphylobacter, and *Clostridium difficile*; and

~~identifying the presence of~~ <u>determining the individual is at an increased risk of developing Autism based on the presence of the antigens associated with</u> the ~~one~~ <u>two</u> or more different pathogens in the stool sample ~~as a biomarker that indicates that the individual has increased risk of developing Autism~~.

48. (Previously Presented) The method of claim 47, wherein the step of analyzing comprises performing a stool immunoassay.

49. (Currently Amended) The method of claim 47, wherein at least one of the ~~one~~ <u>two</u> or more different pathogens is *Helicobacter pylori*.

50. (Withdrawn - Currently Amended) The method of claim 47, wherein at least one of the ~~one~~ <u>two</u> or more different pathogens is Cryptosporidium.

51. (Withdrawn - Currently Amended) The method of claim 47, wherein at least one of the ~~one~~ <u>two</u> or more different pathogens is *Entamoeba histolytica*.

52. (Withdrawn - Currently Amended) The method of claim 47, wherein at least one of the ~~one~~ <u>two</u> or more different pathogens is Giardia.

53. (Withdrawn - Currently Amended) The method of claim 47, wherein at least one of the ~~one~~ <u>two</u> or more different pathogens is Rotavirus.

54. (Withdrawn - Currently Amended) The method of claim 47, wherein at least one of the ~~one~~ <u>two</u> or more different pathogens is Camphylobacter.

55. (Withdrawn - Currently Amended) The method of claim 47, wherein at least one of the ~~one~~ two or more different pathogens is *Clostridium difficile*.

56. (Previously Presented) The method of claim 1, further comprising treating an individual determined to have Autism with one or more digestive enzymes.

57. (Previously Presented) The method of claim 36, further comprising treating an individual diagnosed with Autism with one or more digestive enzymes.

58. (Previously Presented) The method of claim 47, further comprising treating an individual having increased risk of developing Autism with one or more digestive enzymes.

59. (Previously Presented) The method of claim 56, wherein the one or more digestive enzymes comprise chymotrypsin.

60. (Previously Presented) The method of claim 57, wherein the one or more digestive enzymes comprise chymotrypsin.

61. (Previously Presented) The method of claim 58, wherein the one or more digestive enzymes comprise chymotrypsin.

62. (Previously Presented) The method of claim 1, wherein the individual further exhibits one or more symptoms of Autism.

63. (Previously Presented) The method of claim 36, wherein the individual further exhibits one or more symptoms of Autism.

64. (Previously Presented) The method of claim 47, wherein the individual further exhibits one or more symptoms of Autism.

65. (New) The method of claim 56, wherein the digestive enzymes comprise amylases, proteases, and lipases.

66. (New) The method of claim 57, wherein the digestive enzymes comprise amylases, proteases, and lipases.

67. (New) The method of claim 58, wherein the digestive enzymes comprise amylases, proteases, and lipases.